

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
12 February 2004 (12.02.2004)

PCT

(10) International Publication Number  
**WO 2004/013868 A3**

(51) International Patent Classification<sup>7</sup>: **H01B 7/20**,  
12/12, 11/06, H01L 39/14

(21) International Application Number:  
PCT/US2003/024290

(22) International Filing Date: 1 August 2003 (01.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/400,429 1 August 2002 (01.08.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: **TRIAXIAL SUPERCONDUCTING CABLE AND TERMINATION THEREFOR**

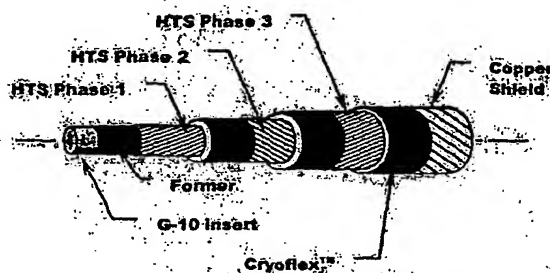


Fig. 2. Schematic of the tri-axial cable.

Schematic of the tri-axial cable

(57) Abstract: In order to provide a flexible oxide superconducting cable which is reduced in AC loss, tape-shaped superconducting wires covered with a stabilizing metal are wound on a flexible former. The superconducting wires are preferably laid on the former at a bending strain of not more than 0.2 %. In laying on the former, a number of tape-shaped superconducting wires are laid on a core member in a side-by-side manner, to form a first layer. A prescribed number of tape-shaped superconducting wires are laid on top of the first layer in a side-by-side manner, to form a second layer. The former may be made of a metal, plastic, reinforced plastic, polymer, or a composite and provides flexibility to the superconducting wires and the cable formed therewith. Methods of forming and terminating a triaxial superconductor are disclosed.

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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

(88) Date of publication of the international search report:  
15 April 2004

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

8 JAN 2005

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/24290

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01B 7/20, 11/06, 12/12; H01L 39/14

US CL : 174/120 SC, 106 SC, 102 SC, 105 SC, 15.5; 333/1, 12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 174/120 SC, 106 SC, 102 SC, 105 SC, 15.5; 333/1, 12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
NONE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,843,830 A (PRIAROGGIA et al.) 22 October 1974 (22.10.1974), see entire document.	1-19
Y	US 6,225,565 B1 (PRYSNER) 01 May 2001 (01.05.2001), see entire document.	1-19
Y	US 5,932,523 A (FUJIKAMI et al.) 03 August 1999 (03.08.1999), see entire document.	1-19

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"&amp;"

document member of the same patent family

Date of the actual completion of the international search

07 November 2003 (07.11.2003)

Date of mailing of the international search report

01 MAR 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

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